	er ID 70034 25, 2011 1:02:44 PM	Л									Page 1		
Revision ID:	D3372-041 Collective Lock Assemb		A	Accept					Setup	Start Stop			
	5/25/2011 Start (Qty: 4.00 Qty: 4.00			Cust Ite					r	1 188	1018 HE 1101 1881	
Approvals:	Process Plan:	CZ	Date:	Tooling: _ SPC (Y/N):		Date:			Run	Start Stop			
Sequence ID/ Work Center II	Operat Descrip			Set Up/ Run Hours	Tool II	D Tool#	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp	
Draw Nbr	Revision Nb	r					i					**	
D3372	Rev B												
100 	Small Fal	b Memo		0.00				4	84	/10	/12	(2)	
Small Fab			93372-3 using AN5-42A bolt : D3372-3	as per Dwg D3372					/	7			
	QC5- Ins	pect part comp	leteness to step on W/O	0.00	<u>~</u> 0	1/(10)	18 (2	\				
QC Quality Control		Memo		0.00	≥ 15	11(10)	, 10		<i>/</i>				
120 	Small Fal	b		0.00									
Small Fab		Memo		0.00									
Small Fab		1-Open Carlock barrel.	m Lock package. Keep keys, Discard the rest. D3369-5 spacer using the fla			Sello	18					·	

 \langle

Dart Aerospace Ltd

W/O:			WORK ORDER CHANGES											
DATE	STEP		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
			·				ļ. 							
							<u> </u>	1						

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed	d:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)													
		- · · · · · · · · · · · · · · · · · · ·		Corrective Action Section B	Verification	Approval	Approval								
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector							
								-							
			,												
	,														

Work Order ID 70034

Wednesday, May 25, 2011 1:02:44 PM



Page 2

Item ID:

D3372-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Collective Lock Assembly

Start Date:

5/25/2011

Start Qty: 4.00

Req'd Qty: 4.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

QC: Date:

Date: _____

Tooling: SPC (Y/N):

0.00

Date:

Date:

Start

Reject

Qty

Stop

Run



Required Date: 6/10/2011

Sequence ID/ **Work Center ID**

130

Small Fab Small Fab

Operation Description Set Up/

Run Hours

Tool ID

Tool # Plan Code

Accept Qty

Reject Number Stamp

Insp.

Small Fab

1-Assemble D3372-053 as per Dwg D3372. Apply a drop of permanent locktite

262 to the threads

Part NumberDescription Batch
A Locktite 262 HIT-95 Qty

A/R N/A

0.00

0.00

Identify as D3372-053

2-Assemble D3372-051 as per Dwg

140

Large Fab

Large Fab

Large Fab

Memo

SS Rod

Tack weld lock shaft as per Dwg D3372 Batch / 11400 9 EL 110-18 (2)

W/O:		·	WOF	RK ORDER CHANGES	•				
DATE	STEP	PRO	OCEDURE CHAN		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No):	PAR #:	Fault Categ	ory:	NCR: Yes	No DC)A:	Date: _	
	Reso	lution:	Disposition		QA: N/C C	losed: _	1	Date: _	
NCR:			WORK ORDE	R NON-CONFORMAN	CE (NC	R)	i		·r
DATE	STEP	Description of NC		Corrective Action Section Action Description			ication otion C	Approval Chief Eng	Approval QC Inspecto
			Chief Eng	Chief Eng	Date	3			
			1						1
		•							
				·					

Work Order ID 70034 Wednesday, May 25, 2011 1:02:44 PM D3372-041 Item ID: Accept Setup Start **Revision ID:** Stop Item Name: Collective Lock Assembly Start Otv: 4.00 **Start Date:** 5/25/2011 **Cust Item ID: Required Date:** 6/10/2011 **Reg'd Oty:** 4.00 **Customer:** Reference: Run Start Process Plan: Date: Tooling: Approvals: Date: Stop Date: OC: SPC (Y/N): Date: Sequence ID/ Operation Reject Set Up/ Tool ID Tool # Plan Accept Reject **Work Center ID** Description Number Stamp Run Hours Code Qty Otv 150 0.00 OC9- Inspect visual per OSI004- Fusion Welds 0.00 Memo Quality Control 160

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

6 introles.

Page 3

Insp.

170

Packaging

Packaging

Identify as per dwg & Stock Location:

0.00

Memo

Memo

0.00

Dart Aer	osp	ace	Ltd
-----------------	-----	-----	-----

W/O:		WORK ORDER CHANG	ES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						·	
		÷					
				i,			
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQA	٨:	Date: _	

	Rese	olution:	Disposition	:	QA: N/C Clos	sed:	Date: _	
NCR:			WORK ORDE	R NON-CONFORMAN	NCE (NCR)			
		Description of NC		Corrective Action Section	ı B	Verification	Approval	Approval
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

Picklist Print

Wednesday, May 25, 2011 1:02:41 PM

Work Order ID: 70034

Parent Item:

D3372-041

Parent Item Name: Collective Lock Assembly



Start Date: 5/25/2011

Required Date: 6/10/2011

Start Qty: 4.00

Required Qty: 4.00

Comments:

IPP Rev:A Removed from 9 Digit 06-01-13 JLM

IPP Rev:B Added Key ID_

06.03.21 EC

IPP Rev:C

ac	lded D3384-043 I	DD 10.05.13 veri	ified :E	C						<u>.</u> .			
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
5/16WC SS Flat Washer 5/16 FW516		Purchased	No			100	Each	3,379.000	2	8 SB 1,	1/10/1	8	
				Location	:	Loc	: Oty	Loc Code					
				st376			2000		_				
					117332		2000				_		
	•			ST377			1379				_		
					115072		100		_	10	_		
					115174 116643		57 1222		_	7	_		
AN5-42A		Purchased	No		110043	100	Each	22.0000	1	4	_		
		Purchased	140			100	Lacii	22.0000		4 SB	(1/18/1	8	
		•		Location	<u>.</u>	Loc	<u>Oty</u>	Loc Code					
				ST341			22				_		
					108442		22		_	8	_		
AN960-416	NAS1149F0463P	Purchased	No			100	Each	0.0000	2	8			
Washer							4/167	or		SB	llw	/13	
D2728-7		Manufactured	No			100	Each	0.0000	0	0			
Dart Logo John								/		Sa	11/10/	18	

Dart Logo label

Dart Aeros	pace Ltd
------------	----------

Dart Aei	ospace	ELIC								
W/O:			WO	RK ORDER CHANGI	ES	.,		Ann		
DATE	STEP	PRO	OCEDURE CHAN	GE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
					·					
Part No		PAR #:					•	•		
	R	esolution:	Disposition	:	_ QA: N/C C	closed: _		Date: _		
NCR:	NCR:		WORK ORDE	R NON-CONFORMA	NCE (NC	R)				
		Description of NC		Corrective Action Section		Verif	ication	Approval	Approval	
DATE	STEP	Section A	Initial Action Descr Chief Eng Chief Eng		Sign Date		tion C	Chief Eng	QC Inspector	
						,				
						,				
		* .								

Picklist Print

Page 2

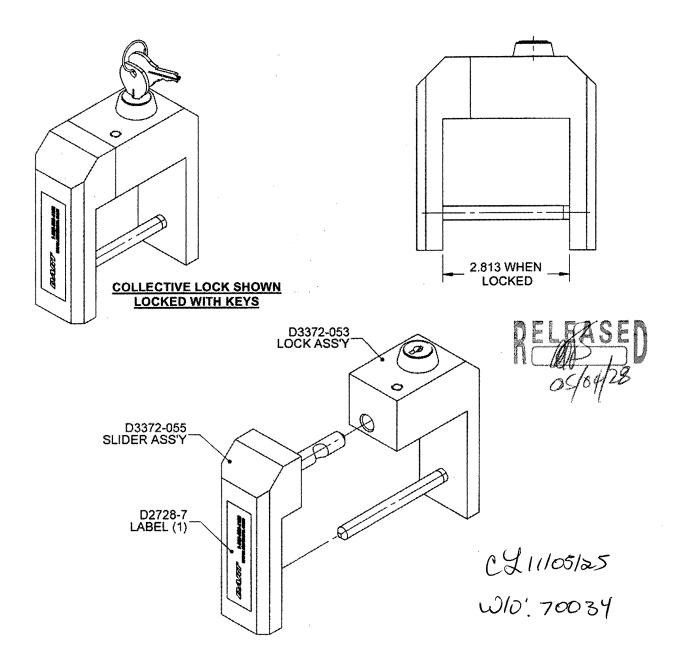
Wednesday, May 25, 2011 1:02:41 PM

Work Order ID: 70034 D3372-041 Parent Item: Parent Item Name: Collective Lock Assembly Start Date: 5/25/2011 **Required Date:** 6/10/2011 Start Qty: 4.00 Required Qty: 4.00 D3372-1 No 100 Each 3.0000 Manufactured Main Body Loc Qty Loc Code Location 1370038 GA 3 69631 D3372-5 Manufactured No 100 Each 1.0000 Cam Lock Shaft Location Loc Qty ST048 59557 D3372-7 100 Each 0.0000 Manufactured No 70036 Slider Body D3373-1 No 100 17.0000 Manufactured Each 5 8463 Cam Lock Location Loc Qty Loc Code ST049 17 17 58463 D3384-043 0.0000 Manufactured No 100 Each Cyclic Sock Assembly HX-81 100 27.0000 Purchased No Each 1/4"-20 SHCS 3/8" long Location Loc Qty Loc Code ST390 27 114383 27

Dart Ae	rospace	Ltd							
W/O:			WO	RK ORDER CHANGE	S				
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:							
<i>'</i> .	R	esolution:	Disposition	:	QA: N/C Cld	sed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCR)			
		Description of NC	Corrective Action		on B	Verification		Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		ion C	Chief Eng	QC Inspector
·									
	3								
1	1				ı	1		1	1



	1		
DESIGN DRAWN BY		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECK	ED APPROVE	DRAWING NO. REV. I	
在		D3372 SHEET 1 OF	
DATE	la l	TITLE SCAL	
05.02.23		COLLECTIVE LOCK 1:	
A 05.01.10		NEW ISSUE	
В	05.02.23	REDESIGN FOR STANDARD 1/4 TURN LOCK, D3369-5 SUPERCEDES D3372-11 (OBSOLETE)	



D3372-051 AS350 COLLECTIVE LOCK ASS'Y

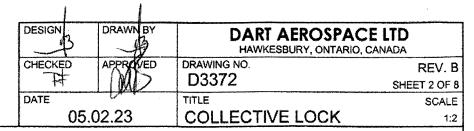
NOTES:

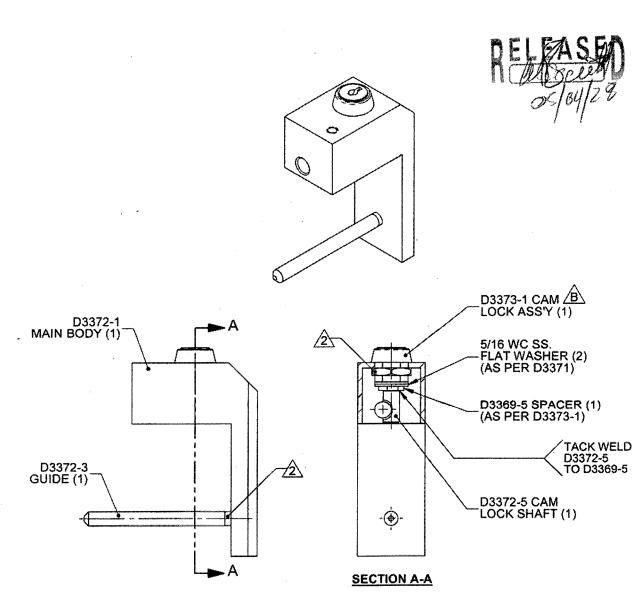
- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED 2) ALL DIMENSIONS ARE IN INCHES

COPYRIGHT © 2005 BY DART AEROSPACE LTD.

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.







D3372-053 LOCK ASS'Y

NOTES:

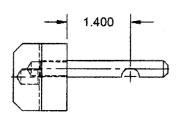
- 1) WELD PER DART QSI 004 2) APPLY THREADLOCKER LOCTITE 262 ON THREADS

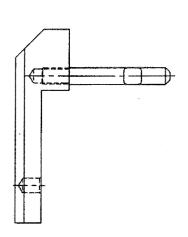
COPYRIGHT © 2005 BY DART AEROSPACE LTD.

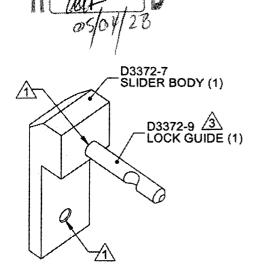
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



	I:		
DESIGN	DRAWN BY	DART AEROSPAC HAWKESBURY, ONTARIO, O	
CHECKED	APPROVED	DRAWING NO.	REV. B
<u> </u>	1/4/12	D3372	SHEET 3 OF 8
DATE	· · · · · · · · · · · · · · · · · · ·	TITLE	SCALE
05.02.23		COLLECTIVE LOCK	1:2







D3372-055 SLIDER ASS'Y

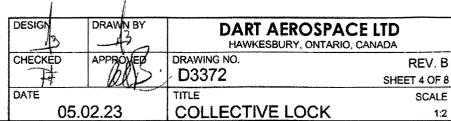
NOTES:

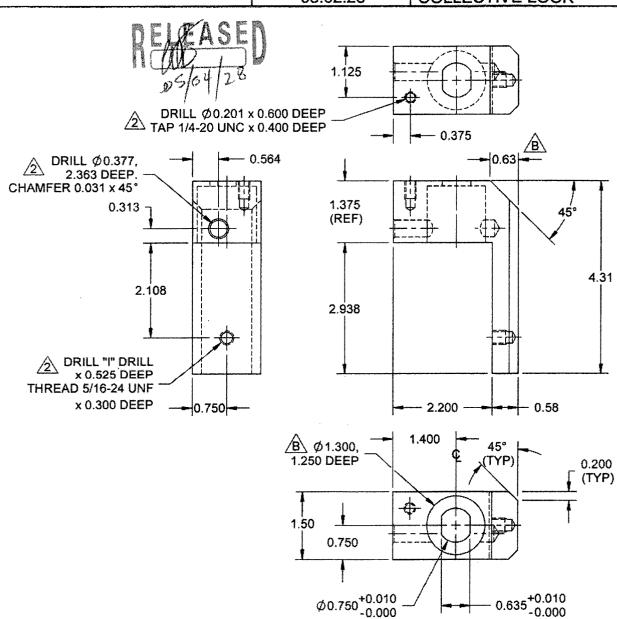
- 1) COVER INSIDE HOLES AND D3372-9 PRIOR PAINTING
 2) FINISH: POWDER COAT PAINT FIRE RED (4.3.5.10) PER DART QSI 005 4.3
 3) APPLY THREADLOCKER LOCTITE 262 ON D3372-9 THREADS PRIOR ASSEMBLY
 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 5) ALL DIMENSIONS ARE IN INCHES

COPYRIGHT © 2005 BY DART AEROSPACE LTD.

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.







D3372-1 MAIN BODY

NOTES:

- 1) MATERIAL: 6061-T6/T651 (QQ-A-200/8 OR QQ-A-225/8)
 (REF. DART SPEC. M6061T6B)
 2) COVER INSIDE HOLES PRIOR PAINTING
 3) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 POWDER COAT FIRE RED (4.3.5.10) PER DART QSI 005 4.3
 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 5) ALL DIMENSIONS ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 6) REPARK ALL SHAPP EDGES 0.005 TO 0.010
- 5) ALL DIMENSIONS ARE IN INCHES 6) BREAK ALL SHARP EDGES 0.005 TO 0.010

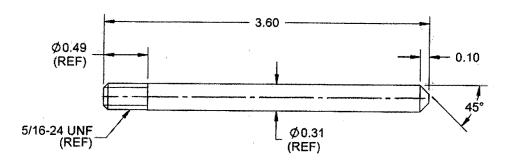
COPYRIGHT © 2005 BY DART AEROSPACE LTD.



DESIGN	DRAWI BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO. D3372	REV. B
DATE	-1 /x1-0-	TITLE	SHEET 5 OF 8 SCALE
05	5.02.23	COLLECTIVE LOCK	1:1

SPECIFICATION CONTROL DRAWING





D3372-3 GUIDE

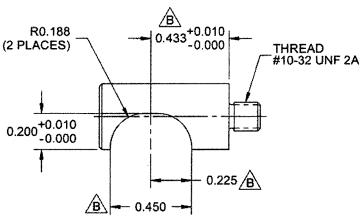
NOTES:

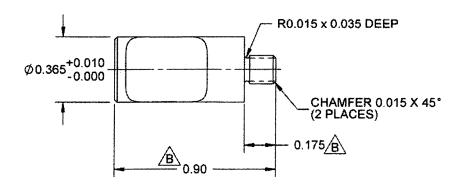
- 1) MATERIAL: AN5-42A BOLT MODIFIED AS SHOWN.
 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 3) ALL DIMENSIONS ARE IN INCHES
 4) BREAK ALL SHARP EDGES 0.005 TO 0.010



1	/		
DESIGN	DRAWN BY	DART AEROSPAC HAWKESBURY, ONTARIO, O	1
CHECKED	ARPROVED	DRAWING NO.	REV. B
持	1/01/2	D3372	SHEET 6 OF 8
DATE	. (*	TITLE	SCALE
05.02.23		COLLECTIVE LOCK	2:1







D3372-5 CAM LOCK SHAFT

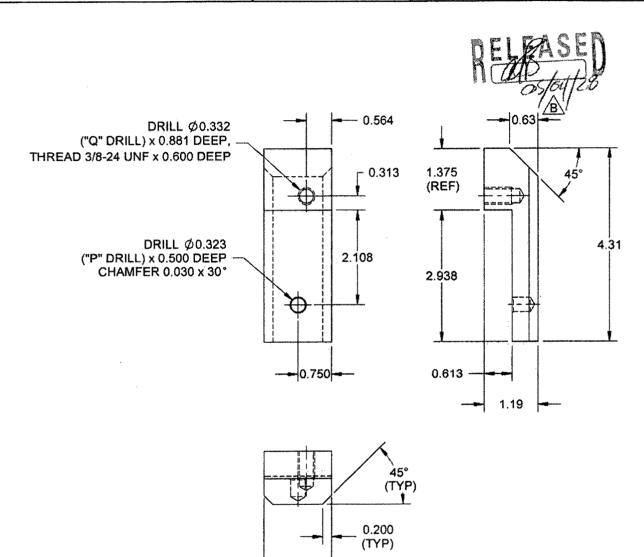
NOTES:

- 1) MATERIAL: AISI 303 S.S. (REF. DART SPEC. M303R0.375)
 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 3) ALL DIMENSIONS ARE IN INCHES
 4) BREAK ALL SHARP EDGES 0.005 TO 0.010

COPYRIGHT © 2005 BY DART AEROSPACE LTD.



DESIGN	DRAWN BY	DART AEROSPAC HAWKESBURY, ONTARIO, O	
CHECKED	APPROVED	DRAWING NO. D3372	REV. B SHEET 7 OF 8
DATE 05.02.23		COLLECTIVE LOCK	SCALE



D3372-7 SLIDER BODY

-- 1.50 ·

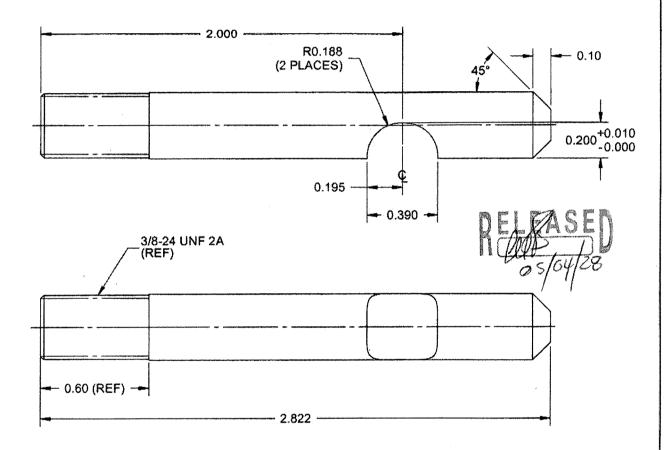
- 1) MATERIAL: 6061-T6/T651 (QQ-A-200/8 OR QQ-A-225/8)
 (REF. DART SPEC. M6061T6B)
 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
 4) ALL DIMENSIONS ARE IN INCHES
 5) BREAK ALL SHARP EDGES 0.005 TO 0.010

COPYRIGHT © 2005 BY DART AEROSPACE LTD.



- 1			
DESIGN	DRAWIN BY	DART AEROSPAC HAWKESBURY, ONTARIO, O	
CHECKED	APPROVED	DRAWING NO. D3372	REV. B
44		DOOTE	SHEET 8 OF 8
DATE	<i>U</i> 1	TITLE	SCALE
05.02.23		COLLECTIVE LOCK	2:1

SPECIFICATION CONTROL DRAWING



D3372-9 LOCK GUIDE

- 1) MATERIAL: AN6-36A BOLT, MODIFIED AS SHOWN 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED 3) ALL DIMENSIONS ARE IN INCHES 4) BREAK ALL SHARP EDGES 0.005 TO 0.010